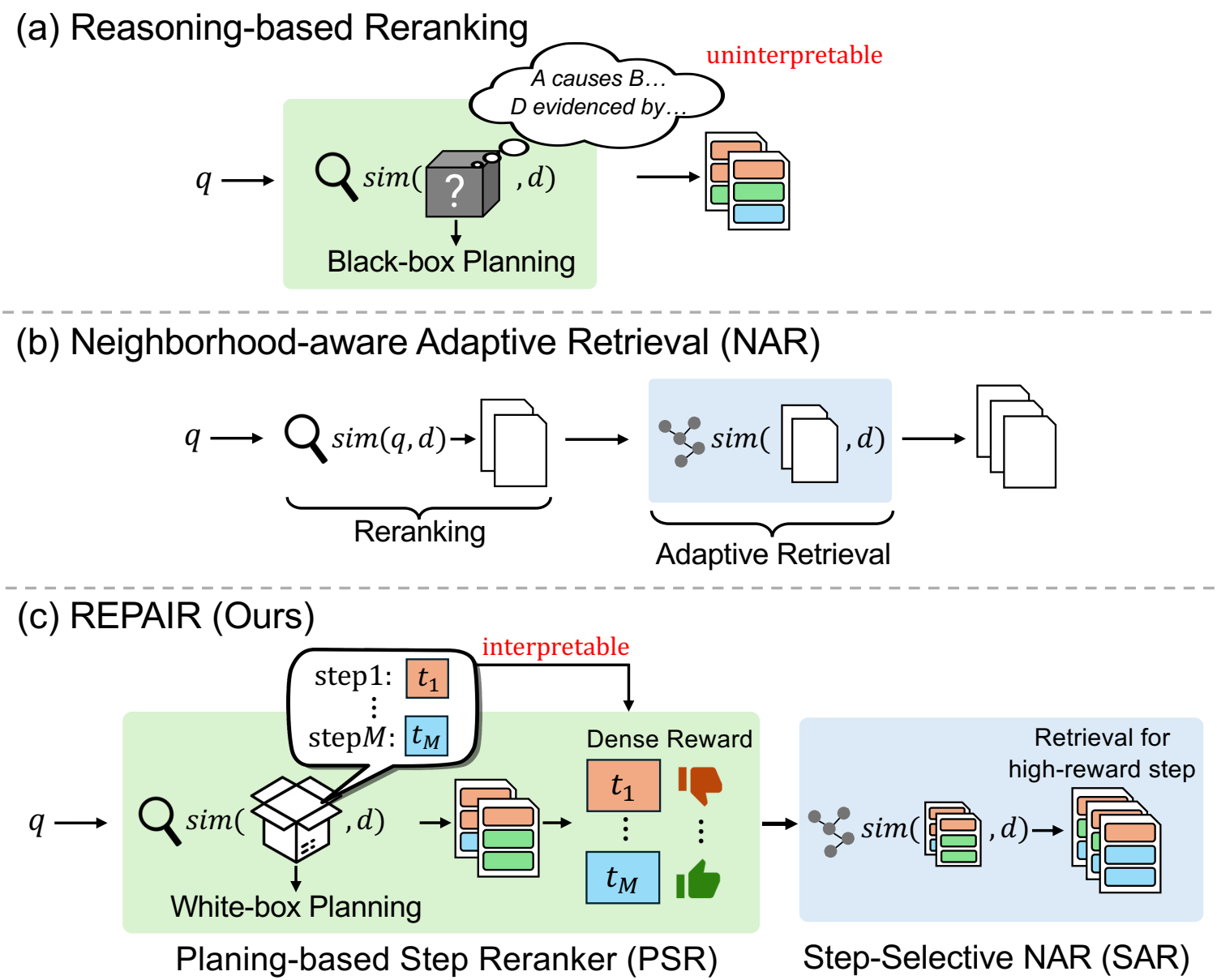

(a) Reasoning-based Reranking
uninterpretable
A causes B…
D evidenced by…
q
sim(? , d)
Black-box Planning
(b) Neighborhood-aware Adaptive Retrieval (NAR)
q
sim(q, d)
Reranking
sim(, d)
Adaptive Retrieval
(c) REPAIR (Ours)
interpretable
step1: t1
stepM: tM
q
sim(, d)
White-box Planning
Dense Reward
t1
tM
Planing-based Step Reranker (PSR)
Retrieval for high-reward step
sim(, d)
Step-Selective NAR (SAR)