```
strong_safety_implies_memoryless  THM

⊢  ∀E:EventStruct, P:TraceProperty(E).
|  R_strong_safety(E) preserves P ⇒ memorylessR(E) preserves P
| by ...
THEN Reduce 0
THEN Auto
THEN ExRepD
THEN Using[‘x’,x
|    ] (BackThruSomeHyp THEN Auto)
|
1. E : EventStruct
2. P : (|E| List)→Prop
3. ∀x,y:|E| List. P(x) ⇒ sublist(|E|;y;x) ⇒ P(y)
4. x : |E| List
5. y : |E| List
6. P(x)
7. a : |E|
8. y = filter(λb.¬₂(b =msg=(E) a);x)
⊢  sublist(|E|;y;x)  by HypSubst (-1) 0 THEN Auto THEN Easy
END
```