```
assert-has-src  THM

⊢  ∀i:Id, k:Knd. has-src(i;k) ⟺ isrcv(k) & source(lnk(k)) = i
| by Auto
|
|\
| 1. i : Id
| 2. k : Knd
| 3. has-src(i;k)
| ⊢  isrcv(k)
|   by DVar ‘k’
|      THEN
|      Repeat (Unfolds [‘has-src‘;‘isrcv‘] -1 THEN Reduce -1)
|      THEN
|      Unfold ‘isrcv‘ 0
|      THEN
|      Reduce 0
|
|\
| 1. i : Id
| 2. k : Knd
| 3. has-src(i;k)
| ⊢  source(lnk(k)) = i
|   by DVar ‘k’
|      THEN
|      Repeat (Unfolds [‘has-src‘;‘isrcv‘;‘lnk‘] -1 THEN Reduce -1)
|      THEN
|      Unfold ‘lnk‘ 0
|      THEN
|      Reduce 0
|      THEN
|      RW assert_pushdownC -1
|
.\
. 1. i : Id
. 2. k : Knd
. 3. isrcv(k) & source(lnk(k)) = i
. ⊢  has-src(i;k)
.   by DVar ‘k’
.      THEN
.      Repeat (Unfolds [‘has-src‘;‘isrcv‘;‘lnk‘] -1 THEN Reduce -1)
.      THEN
.      ExRepD
.      THEN
.      Try Trivial
.      THEN
.      Unfold ‘has-src‘ 0
.      THEN
.      Unfolds [‘isrcv‘;‘lnk‘] 0
.      THEN
.      Reduce 0
.      THEN
.      RW assert_pushdownC 0
END
```